

SUB FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
08422/010001SERIAL NO.
09/087,141INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)APPLICANT
Martin Fuchs et al.FILING DATE
May 28, 1998GROUP
3642

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SAT	AA	5	7	3	4	4	7	0	03/1998	Rogers et al.			
	AB	5	6	7	2	8	3	0	09/1997	Rogers et al.			
	AC	5	6	3	3	7	1	1	05/1997	Nelson et al.			
	AD	5	5	4	6	8	1	1	8/1996	Rogers et al.			
	AE	5	4	7	9	2	5	6	12/1995	Tamai et al.			
	AF	5	4	3	8	8	7	9	8/1995	Reda			
	AG	5	3	6	1	6	3	8	11/1994	Pettersson et al.			
	AH	5	3	4	4	2	3	6	9/1994	Fishman			
	AI	5	2	8	5	4	3	8	2/1994	Marchand et al.			
	AJ	5	2	6	3	0	3	9	11/1993	Skupsky et al.			
	AK	5	2	2	0	4	0	3	6/1993	Batchelder et al.			
	AL	5	1	3	2	8	2	4	7/1992	Patel et al.			
	AM	5	0	6	2	6	9	3	11/1991	Beratan et al.			
SAT	AN	4	9	3	9	3	6	8	7/1990	Brown			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AO							

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

SAT	AP	Allen et al., "Microfabricated Structures for the in situ Measurement of Residual Stress, Young's Modulus, and Ultimate Strain of Thin Films", APPL. PHYS. LETT., 51:241-243, 1987
SAT	AQ	Bauer et al., "Determination of the Stresses and Properties of Polymer Coatings", J. OF COATINGS TECHNOLOGY, 60:51-55, 1988
SAT	AR	Coburn et al., "Stress in Polyimide Coatings", J. OF POLYMER SCIENCE: PART B: POLYMER PHYSICS, 32:1271-1283, 1994

EXAMINER

J.A. Turner

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9 30 99

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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SAT	BA	4 8 1 2 0 3 6	3/1989	Inoue			
	BB	4 7 2 8 1 6 5	3/1988	Powell			
	BC	4 7 1 0 0 3 0	12/1987	Tauc et al.			
	BD	4 6 5 5 5 4 7	4/1987	Heritage et al.			
	BE	4 5 2 2 5 1 0	6/1985	Rosencwaig et al.			
SAT	BF	3 4 6 2 2 2 3	8/1969	Tiemann et al.			

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BG						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

SAT	BH	Duggal et al., "Resolution of Conflicting Descriptions of Propylene Glycol Relaxation Dynamics Through Impulsive Stimulated Scattering Experiments", POLYMER COMMUNICATIONS, 32:356-360, 1991
	BI	Duggal et al., "Real-Time Optical Characterization of Surface Acoustic Modes of Polyimide Thin-Film Coatings", J. APPL. PHYS. 72:2823-2839, 1992
	BJ	Fishman et al., "Surface Selectivity in Holographic Transient Grating-Diffraction", Stanford University, Stanford, CA; W.W. Hansen Exp. Phys. Lab. & Dept. of Chemistry
	BK	Goldsmith et al., "Measurement of Stresses Generated to Cured Polyimide Films", J. VAC. SCI. TECHNOL. 1:407-409, 1983
	BL	Head et al., "Determination of Shear Stress at a Solder Paste/Stencil Interface", MAT. RES. SOC. SYMP. PROC. 323:425-433, 1994
	BM	Maden et al., "Stress Analysis of Thin Polyimide Films Using Holographic Interferometry", EXPERIMENTAL MECHANICS 31:179-184, 1991
SAT	BN	Rogers et al., "Study of Lamb Acoustic Waveguide Modes in Unsupported Polyimide Thin Films Using Real-Time Impulsive Stimulated Thermal Scattering", J. APPL. PHYS. 75:1534-1556, 1994

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	CB						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

SAT	CC	Rogers et al., "Real-Time In Situ Characterization of Thin Films", CHEMF. 8, 27 (1992), pp. 4-8
	CD	Duggal, "Picosecond-Microsecond Structural Relaxation Dynamics in Polypropylene Glycol", JOURNAL OF CHEMICAL PHYSICS, No. 94, pp. 7677-7688, June 15, 1991
	CE	Whitman et al., APPL. OPTICS, 8, 1567 (1969)
	CF	Nizzoli et al., DYNAMICAL PROPERTIES OF SOLIDS (ed. G.K. Horton et al., North-Holland Amsterdam, 1990) Vol. 6, 283
	CG	Bortolani et al., J. PHYS. C., 16, 1757 (1983)
	CH	Fishman I.M. et al., "Surface Selectivity in Four-Wave Mixing: Transient Gratings as a Theoretical and Experimental Example", J. OPT. SOC. AM. B., Vol. 8, No. 9, Sep. 1991, pp. 1880-1888
	CI	Barish et al., "Photoinduced Ionization of Bovine Serum Albumin by Holographic Relaxation Methods", J. CHEM. PHYS. 85:4194-4195, 1986
	CJ	Burzynski et al., "Study of Anisotropy of Acoustic Wave Propagation in Stretched poly(vinylidene difluoride) Film Using the Picosecond Transient Grating Technique", POLYMER, 30:1247-1250, 1989
	CK	Deeg et al., "New Grating Experiments in the Study of Irreversible Photochemical Reactions", IEEE J. QUANTUM ELECTRONICS, QE-22:1476-1481, 1986
SAT	CL	Espinete et al., "Laser-induced Gratings in Nematic/Cholesteric Mixtures", APP. PHYS. LETTERS, 50:1924-1926, 1987

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DB					

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

SAT ↑	DC	Meth et al., "Experimental and Theoretical Analysis of Transient Grating Generation and Detection of Acoustic Waveguide Modes in Ultrathin Solids", J. APP. PHYS. 67:3362-3377, 1990
	DD	Greene et al., "Picosecond Relaxation Dynamics in Polydiacetylene-pTs, CHEM. PHYS. LETTERS, 139:381-385, 1987
	DE	Meth et al., "Generation and Detection of Acoustic Waveguide Modes in Ultrathin Crystals Using the Transient Grating Technique", CHEM. PHYS. LETTERS, 162:306-312, 1989
	DF	Nelson et al., "Optical Generation of Tunable Ultrasonic Waves", J. APP. PHYS., 53:1144-1149, 1982
	DG	Nizzoli, "Problems with the Determination of Elastic Constants from Higher-Order Surface Waves: Results for Al on NaCl", PHYSICAL REVIEW B, 37:1007-1010, 1988
	DH	Noll et al., "Picosecond Photoinduced Index Changes in a Si:H and Related Alloys Measured by Transient Grating Experiments", J. NON-CRYSTALLINE SOLIDS, 97 & 98:141-144, 1987
	DI	Portella et al., "Four-Wave Mixing Experiments in Cresyl Violet Thin Films: Inadequacy of a Two-Level Interpretation", J. PHYS. CHEM., 91:3715-3719, 1987
	DJ	Prasad, "Non-Linear Optical Effects in Thin Organic Polymeric Films", THIN SOLID FILMS, 152:275-294, 1987
	DK	Rao et al., "Third Order Nonlinear Optical Interactions in Thin Films by Poly-p-phenylenebenzobisthiazole Polymer Investigated by Picosecond and Subpicosecond Degenerate Four Wave Mixing", APP. PHYS. LETTERS, 48:1187-1189, 1986
	DL	

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U.S. PATENT DOCUMENTS

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						YES	NO
EB							

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

SAT. ↑ ↓ SAT.	EC	Rao et al., "Picosecond Transient Grating Studies of Polymeric Thin Films", APP. PHYS. LETTERS, 48:387-389, 1986
	ED	Rose et al., "Picosecond Transient Grating Transport in Anthracene Single Crystals, Measurements of Singlet Excitation, CHEM. PHYS. LETTERS, 106:13-19, 1984
	EE	Rao et al., "Picosecond Laser-Induced Transient Grating Probe of the Mechanical Properties of High-Modulus Poly(p-phenylenebenzobisoxazole-2,6-diyl)", MACROMOLECULES, 22:985-989, 1989
	EF	Rothenhausler, "Plasmon Surface Polariton Fields for the Characterization of Thin Films", THIN SOLID FILMS, 159:323-330, 1988
	EG	A.R. Duggal et al., "Real-time Characterization of Acoustic Modes of Polyimide Thin-Film Coatings Using Impulsive Stimulated Thermal Scattering", APP. PHYS. LETT., 60(6) 10 Feb. 1992, pp. 692-694

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